

Security Audit Report





Completed on

July 25, 2023



OVERVIEW

This audit has been prepared for **RC Launchpad** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- Team transparency and goals
- ✓ Website's age, code, security and UX
- Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -







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RC Launchpad



PROJECT DESCRIPTION

According to their whitepaper:

RC LAUNCHPAD is a blockchain platform designed to provide an easy to use launchpad that aims to help new quality blockchain projects to raise capital and easily distribute their tokens at the same time. RC LAUNCHPAD currently operates on the Binance Smart Chain and helps launch the new IDO coins via a Decentralized liquidity Exchange(DEX) such as PancakeSwap.

Release Date: Presale starts in July, 2023

Category: Launchpad



CONTRACT

INFO

RCSALE Launchpad

Token Name

Symbol

RCS

Contract Address

0xC97538AF2470814dB75E33bA5901C6833A8f6c75

Network

Binance Smart Chain

Solidity

Language

Deployment Date

Jul 24, 2022

Verified?

Yes

Total Supply

5,000,000,000

Status

Not launched

TAXES

Buy Tax

3%

Sell Tax
10%



Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

^{*}Taxes can be changed in future



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	500000000 RCS
Median Transfer Amount	500000000 RCS
Average Transfer Amount	500000000 RCS
First transfer date	2023-07-24
Last transfer date	2023-07-24
Days token transferred	1

SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	1
Days contract called	1
Last transaction time	2023-07-24 18:51:19 UTC
Created	2023-07-24 18:48:22 UTC
Create TX	0x8eecb90adclea4cd900324bf82f6b34b55 d6728f0274dcf58e9ab0952c4a9005
Creator	0x4f2cd7d3ba11bc8227caf334ceb23685875 5f681

03





VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

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THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

Update fees function does not actually update the fees but leave them unchanged.

Fees state variables should be equal to the new input values instead of current state variable ones.

Checks should be performed on the input values instead on state variable values.

```
function updateFees(
   uint256 _marketingBuyFee, uint256 _marketingSellFee, uint256 _liquidityBuyFee,
   uint256 _liquiditySellFee, uint256 _rewardsBuyFee, uint256 _rewardsSellFee
       rewardsBuyFee.add(liquidityBuyFee).add(marketingBuyFee) <= 30,
        "Buy total fee cannot be greater than 30%"
       rewardsSellFee.add(liquiditySellFee).add(marketingSellFee) <= 30,
        "Sell total fee cannot be greater than 30%"
   marketingBuyFee = marketingBuyFee;
   marketingSellFee = marketingSellFee;
   liquidityBuyFee = liquidityBuyFee;
   liquiditySellFee = liquiditySellFee;
   rewardsBuyFee = rewardsBuyFee;
   rewardsSellFee = rewardsSellFee;
   totalBuyFees = rewardsBuyFee.add(liquidityBuyFee).add(marketingBuyFee);
   totalSellFees = rewardsSellFee.add(liquiditySellFee).add(
       marketingSellFee
   emit UpdateFees(
        _marketingBuyFee, _marketingSellFee, _liquidityBuyFee,
        _liquiditySellFee, _rewardsBuyFee, _rewardsSellFee
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.





FOUND THREATS

High Risk

Owner can set max sell transaction limit without limitations, if set to 0, users won't be able to sell.

```
function updateMaxAmount(uint256 newNum) public onlyOwner {
   require(maxSellTransactionAmount != newNum);
   maxSellTransactionAmount = newNum * (10**9);
function _transfer(
   address from,
   uint256 amount
!swapping &&
   tradingEnabled &&
   automatedMarketMakerPairs[to] && // sells only by detecting transfer to automated market maker pair
   from != address(uniswapV2Router) && //router -> pair is removing liquidity which shouldn't have max
   !_isExcludedFromFees[to] && //no max for those excluded from fees
   maxSellTransactionAmount != 0 // if 0 means disabled
       amount <= maxSellTransactionAmount,
```

- **Recommendation:**
 - Considered as good transaction limit practice is transaction limits to be always equal or above 0.1% of total supply.





FOUND THREATS

Medium Risk

Owner can change auto swap settings. If swapTokensAtAmount is set to 0 and contract token balances are 0, contract will halt and selling will fail.

```
function updateSwapTokensAtAmount(uint256 newAmountToSwap) public onlyOwner {
    swapTokensAtAmount = newAmountToSwap;
function _transfer(
   address from,
uint256 contractTokenBalance = balanceOf(address(this));
bool canSwap = contractTokenBalance >= swapTokensAtAmount;
   tradingEnabled &&
   canSwap &&
   !swapping &&
   !automatedMarketMakerPairs[from] &&
   from != liquidityWallet &&
   to != liquidityWallet &&
    swapAndLiquifyEnabled
   swapping = true;
   uint256 totalBuySell = buyAmount.add(sellAmount);
   uint256 swapAmountBought = contractTokenBalance.mul(buyAmount).div(
       totalBuySell
    uint256 swapAmountSold = contractTokenBalance.mul(sellAmount).div(
       totalBuySell
```

- **Recommendation:**
 - Ensure that swapTokensAtAmount's value is always above 1 token (consider token decimals).





Informational

Staked user cannot sell their tokens before the stake ending period.





Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(_isExcludedFromFees[account] != excluded);
    _isExcludedFromFees[account] = excluded;

emit ExcludeFromFees(account, excluded);
}
```

Owner can enable/disable staking.

```
function enableStaking(bool enable) public onlyOwner {
   require(stakingEnabled != enable);
   stakingEnabled = enable;
   emit EnableStaking(enable);
}
```

06-E



Informational

Owner can change staking rewards multiplier for each staking duration up to 500 for duration period.

```
function updateStakingAmounts(uint256 duration, uint256 bonus)
   onlyOwner
   require(stakingAmounts[duration] != bonus);
   require(bonus <= 500, "Staking bonus can't exceed 500%");</pre>
   stakingAmounts[duration] = bonus;
   emit UpdateStakingAmounts(duration, bonus);
}
function stake(uint256 duration) public {
   require(stakingEnabled, "Staking is not enabled");
   require(stakingAmounts[duration] != 0, "Invalid staking duration");
        stakingUntilDate[_msgSender()] < block.timestamp.add(duration),</pre>
        "already staked for a longer duration"
    );
   stakingBonus[_msgSender()] = stakingAmounts[duration];
    stakingUntilDate[_msgSender()] = block.timestamp.add(duration);
   uint256 stakingBalanceToSet = balanceOf(_msgSender())
        .mul(stakingAmounts[duration].add(100))
        .div(100);
   dividendTracker.setBalance(_msgSender(), stakingBalanceToSet);
   emit StakeEnter(
       _msgSender(),
       duration,
       block.timestamp,
       block.timestamp + duration
```

06-F



RECOMMENDATIONS FOR

GOOD PRACTICES

- Consider fundamental tradeoffs
- Be attentive to blockchain properties
- 3 Ensure careful rollouts
- 4 Keep contracts simple
- Stay up to date and track development

RC Launchpad GOOD PRACTICES FOUND

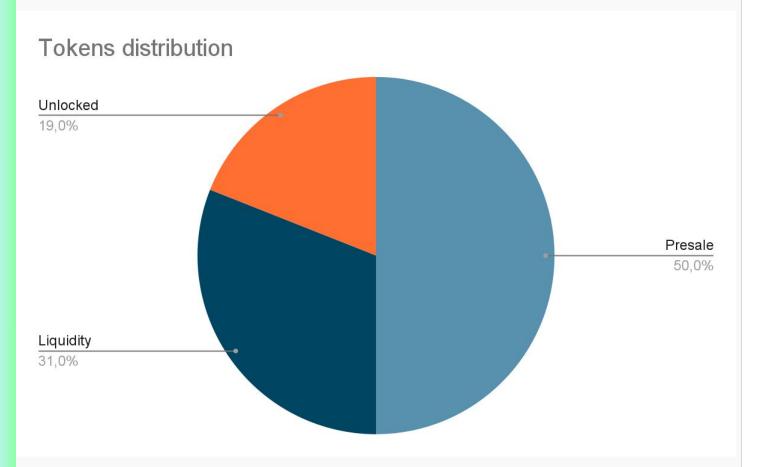
- The owner cannot mint new tokens after deployment
- The smart contract utilizes "SafeMath" to prevent overflows

07



The following tokenomics are based on Pinksale's presale page:

- 50% Presale
- 19% Unlocked
- 31% Liquidity



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THE

1 The team is annonymous

KYC INFORMATION



We recommend the team to get a KYC in order to ensure trust and transparency within the community.



09





Website URL

https://rcsale.app/

Domain Registry https://www.godaddy.com

Domain Expiration

2023-12-16

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

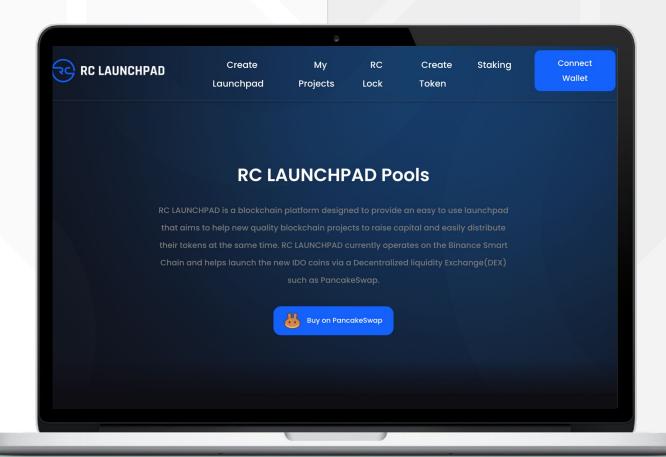
Well written but a bit short

Roadmap

Yes

Mobile-friendly?

Yes



rcsale.app

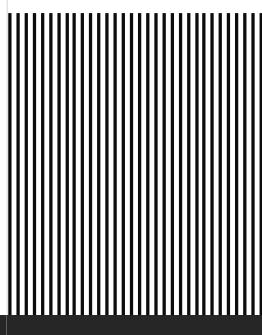
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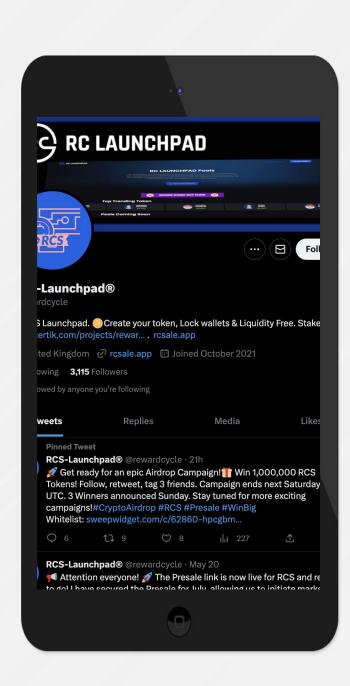
F

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS
Social media pages
are active.







Twitter

@rewardcycle

- 4 272 followers
- Posts frequently
- Active



Telegram

@RC_LAUNCHPAD

- 3 557 members
- Active members
- Active mods



Discord

Not available



Medium

Not available



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Audits | KYCs | dApps Contract Development

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

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No applications were reviewed for security. No product code has been reviewed.

